THE RAMTOP

OCTOBER 1986

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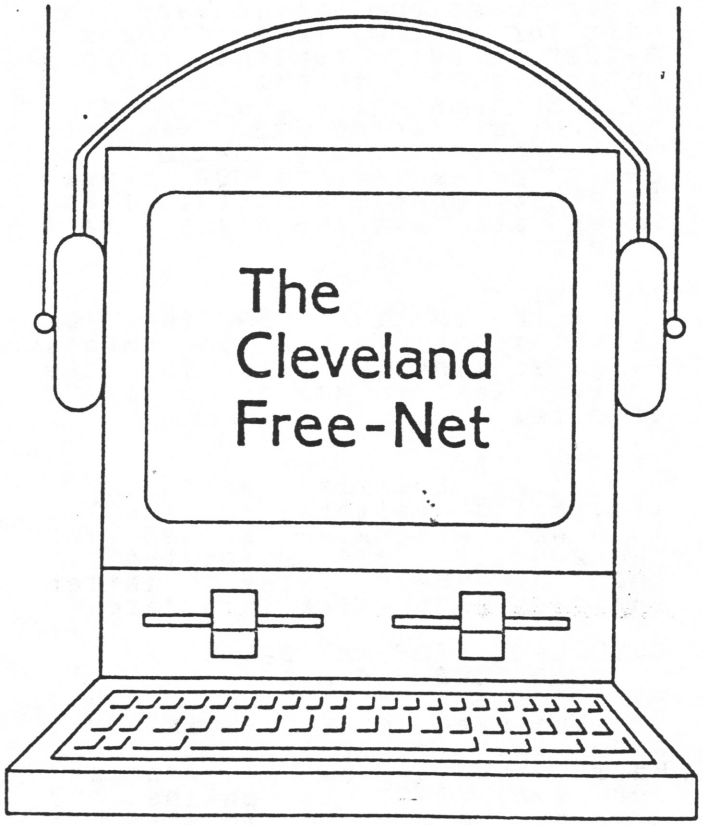

SPECIAL ANNOUNCEMENT!

We are proud to announce that NEXT month (NOVEMBER) at the EAST SIDE meeting, we will have a guest speaker: Dr. Thomas A. Grundner. Please see T/S resources for further details! DON'T MISS HIM!

DATE TO REMEMBER: NOV 7!

WEST SIDE GROUP MEETS AT LAKEWOOD PUBLIC LIBRARY
15425 DETROIT AVE. LAKEWOOD OHIO 7:ØØ P.M.
EVERY THIRD FRIDAY EACH MONTH
CONTACT: DICK SIEG (216) 433-4387

EAST SIDE GROUP MEETS AT THE EUCLID SQUARE MALL
IN THE EUCLIDIAN ROOM 7:3Ø P.M.
EVERY FIRST FRIDAY EACH MONTH
CONTACT: MAX SCHOENFELD (216) 371-1Ø96

A short note to our friends from other newsletters and magazines. You are welcome to use any of our material, news, adds, or programs if YOU: (1) Tell where it came from (RAMTOP Cleveland, Ohio) and (2) The author's name that wrote the article. We would appreciate it if you would send us a copy of the newsletter that it appeared in! Unless otherwise notified we will do the same.

THANK YOU FOR YOUR INTEREST IN OUR NEWSLETTER !

THE TSU-BBS IS ALIVE

SYSOP:Chris Raynak PHONE:216-327-1Ø99 PARAMETERS:8/1/N

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AMSTRAD-SINCLAIR-TIMEX RESOURCES

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news/rumors
hardware software literature

Oct. 1986 by Andy Kosiorek

NEWS from accross the Atlantic:

AMSTRAD has introduced two new products. The "Amstrad PC1512" and the "Sinclair ZX Spectrum plus Two."

The PC1512 is a IBM PC clone retailing for £399.00 in the UK. More about this at a later date, after I digest the six page review in "PCW."

The "ZX Spectrum + 2" is now in the English market at £149. Here is a summery of the review in the Oct. issue of Sinclair User Magazine:

- the machine looks serious and business like.
- the case is thick plastic, base colour is battleship grey.
- there is a built in tape recorder on the right hand side of the unit. (no volume or tone controls).
- the unit has a "real" full travel keyboard, with proper touchline and keys that click. Specific keys include cursers, delete, extended mode, edit and punctuations.
- the screen display is similiar to the 128K spectrum. It boots up with "©1986, ©1982, Amstrad Consumer Electronics."
- most existing hardware add ons should work, however physical shape may be a problem.
- most existing software, but not all, is compatable.
- ports include the usual buss backplane, joysticks, RS232 and MIDI, RGB, TV, sound, and external (optional) numerical keypad.
- configuration for the joysticks is the Interface 2 standard, not Kempston.

Sinclair User,s summery states there is not a machine on the market of equal price and performance value, - not even from Atari or Commodore. "The Amstrad/Sinclair ZX Spectrum plus Two is a new beginning."

For further information, write Amstrad,s Sinclair Product Marketing address:

Sinclair, P.O. Box 462,
Brentwood, Essex CO14 4EE,
England

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A-S-T RESOURCES, continued

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news/rumors
hardware software literature

Oct. 1986 by Andy Kosiorek

I have noted that in the UK, disk drives are becoming more common for the Sinclair machines and the prices are now quite a bargain. "Opus" is now selling their Spectrum "Discovery 1" unit for £99.00. This includes a 3-1/2" drive, controller, and interface, all in one case. Saga Systems has a Spectrum disc controller for £69.99. This unit will operate a 3", 3-1/2", or 5-1/2" drive, 40 or 80 track, single or double density. These items are available via mail order.

The QL:

Here in the USA the QL market seems to be in chaos. A+ is selling QL "kits" for $199 or even less in quantities of 25 or more.

Trackballs:

Zebra Systems has "WICO" trackballs available for the T/S machines. Prices are $19.95 for the 2068, and $39.95 fot the T/S 1000 or 1500. The latter includes a joystick interface.

CLEVELAND FREE-NET System:
368-3888 8-N-1

The Free-Net system is just about back to normal after their hard disc crash. As promised our T/S "SIG" is online and working. We may be located in the "computer corner" page of the "Public Square" section of the system. The Free-Net system is very user friendly. I urge all club members with modems to register as system members, and check in to our "SIG" periodically. Gradually the Free-Net system will become an important communications media for our User Group, and many others in the greater Cleveland area..

NOVEMBER MEETING GUEST SPEAKER:

At our Friday, Nov. 7th eastside meeting, we will have a guest speaker.

Dr. Thomas A. Grundner, Ed.D. System Administator for Cleveland Free-Net will talk about the project, its creation, and its goals.

December meeting:

The December 5th meeting will be our Holiday Party and annual auction.
Don,t miss either one of these coming events.

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Here is a program that was sent in by MAX SHOENFELD. It will help you to find out how your taxes will be effected by the new tax reform. It is simple to use. Just follow ALL the prompts and if one does not apply to you, enter 0 for it. By the way, If you will be at the Nov. East Side meeting, Max will have the program up and running so you may get a copy on tape. Thanks MAX!

```
  10 REM inc tx;revised 10/8/86
  20 REM  - by Max Schoenfeld
  30 PRINT FLASH 1;AT 10,0;"Max'
s fast income tax program!!"
  40 PRINT : PRINT
  50 PRINT : PRINT : PRINT TAB 3
;"Press any key when ready"
  60 PAUSE 0: CLS
  70 PRINT "Answer all questions
 with the   amount asked for.  E
nter zero ifquestion does not ap
ply to you. Do not use commas in
 numbers.   (For example, enter
5000, not   5,000.)  Press ENTER
 button     after answering each
 question."
  80 PRINT : PRINT "Press any ke
y when ready."
  90 PAUSE 0: CLS
 100 INPUT  "What is your filing
 status?     s - single;
             mj - married filing
 jointly;    ms - married filing
 separately; hh - head of househ
old.";c$
 110 IF c$<>"s" AND c$<>"mj" AND
 c$<>"ms" AND c$<>"hh" THEN PRIN
T "Wrong filing status.  Start o
ver": PAUSE 100: CLS
 120 IF c$<>"s" AND c$<>"mj" AND
 c$<>"ms" AND c$<>"hh" THEN GO T
O 10
 130 INPUT "Count your number of
 exemptions.(One each for self a
nd spouse.)";a
 140 INPUT "Count the number 65
 and over, and the number blind"
;a1: IF c$="mj" OR c$="ms" THEN L
ET a1=.8*a1
 150 INPUT "List number of depen
dents.";b
 160 INPUT "Wages, salaries, tip
s, rents,   capital gains, IRA d
isbursements(enter zero if none)
?";c
 170 INPUT "Interest income?";d
 180 INPUT "Dividend income?";e
 190 INPUT "Taxable pension?";f
 200 LET b1=c+d+e+f
 210 PRINT : PRINT "Your total i
ncome is: $ ";b1
 220 PRINT : PRINT "If you have
no pension plan at  work you may
 deduct up to $2,000each for an
IRA.  If you do     have a  pen
sion plan you may   also deduct
up to $2000 each    providing yo
ur adjusted gross   income is le
ss than$ 35,000 for singles and
$50,000 for joint   filers."
 230 INPUT "Any IRA deduction?";
g
 240 INPUT "Your Social Security
?";j
 250 INPUT "Any non-taxable inte
rest? ";k
 260 IF c$="s" OR c$="hh" THEN L
ET l=25000
 270 IF c$="mj" THEN LET l=32000
 280 IF c$="ms" THEN LET l=0
 290 LET j1=((j/2+b1+k)-g-l)/2
 300 IF j1<=j/2 THEN LET j2=j1
 310 IF j1>j/2 THEN LET j2=j/2
 320 IF j1<=0 THEN LET j2=0
 330 PRINT "There is no longer a
 deduction  for married couples
who both    work."
 340 CLS : PAUSE 60
 350 PRINT "Your total income is
 $ ";b1+j2
 360 LET agi=b1+j2-g
 370 PRINT : PRINT "Your Adjuste
d Gross Income is $ ";agi: PAUSE
 60
 380 PRINT : PRINT
 390 IF c$="s" THEN LET h7=2570:
 IF c$="s" THEN LET h8=3000: LET
 h9=h8
 400 IF c$="mj" THEN LET h7=3800
: IF c$="mj" THEN LET h8=5000: L
ET h9=h8
 410 IF c$="ms" THEN LET h7=1900
: IF c$="ms" THEN LET h8=2500: L
ET h9=h8
 420 IF c$="hh" THEN LET h7=2570
: IF c$="hh" THEN LET h8=4400: L
ET h9=h8
 430 PAUSE 60: CLS
 440 PRINT "Your 1987 exemptions
 amount to   $ ";  ((a+b)*1900)
 450 PRINT "Your 1988 exemptions
 amount to   $ ";  ((a+b)*1950)
 460 PRINT "Your 1989 exemptions
 amount to   $ ";  ((a+b)*2000)
 470 PRINT : PRINT "Your 1987 de
duction amounts to  ";h7+(a1*750
)
 480 PRINT : PRINT "Your 1988 de
duction amounts to  ";h8+(a1*750
)
 490 PRINT : PRINT "Your 1989 de
duction amounts to  ";h9+(a1*750
)
 500 PRINT
 510 LET ti87=b1+j2-(g+h7)-((a+b
)*1900)-(a1*750): IF ti87<=0 THE
N LET ti87=0
 520 LET ti88=b1+j2-(g+h8)-((a+b
)*1950)-(a1*750): IF ti88<=0 THE
N LET ti88=0
 530 LET ti89=b1+j2-(g+h9)-((a+b
)*2000)-(a1*750): IF ti89<=0 THE
N LET ti89=0
 540 PRINT "Your 1987 taxable in
come is:     $ ";ti87
 550 PRINT "Your 1988 taxable in
come is:     $ ";ti88
 560 PRINT "Your 1989 taxable in
come is:     $ ";ti89
 570 PRINT
 580 IF c$="s" THEN GO TO 620
 590 IF c$="mj" THEN GO TO 720
 600 IF c$="hh" THEN GO TO 820
 610 IF c$="ms" THEN GO TO 920
 620 IF ti87<=1800 THEN PRINT "Y
our 1987 tax is: $ ";ti87*.11
 630 IF ti87>1800 AND ti87<=1680
0 THEN PRINT "Your 1987 tax is:
$ ";198+((ti87-1800)*.15)
 640 IF ti87>16800 AND ti87<=270
00 THEN PRINT "Your 1987 tax is:
 $ ";2448+((ti87-16800)*.28)
 650 IF ti87>27000 AND ti87<=540
00 THEN PRINT "Your 1987 tax is:
 $ ";5304+((ti87-27000)*.35)
 660 IF ti87>54000 THEN PRINT "Y
our 1987 tax is: $ ";14754+((ti8
7-54000)*.385)
 670 IF ti88<=17850 THEN PRINT "
Your 1988 tax is: $ ";(ti88*.15)
```

```
 680 IF ti88>17850 THEN PRINT "Y
our 1988 tax is: $ ";2677.5+((ti
88-17850)*.28)
 690 IF ti89<=17850 THEN PRINT "
Your 1989 tax is: $ ";(ti89*.15)
 700 IF ti89>17850 THEN PRINT "Y
our 1989 tax is: $ ";2677.5+((ti
89-17850)*.28)
 710 STOP
 720 IF ti87<=3000 THEN PRINT "Y
our 1987 tax is $ ";ti87*.11
 730 IF ti87>3000 AND ti87<=2800
0 THEN PRINT "Your 1987 tax is $
 ";330+((ti87-3000)*.15)
 740 IF ti87>28000 AND ti87<=450
00 THEN PRINT "Your 1987 tax is
$ ";4080+((ti87-28000)*.28)
 750 IF ti87>45000 AND ti87<=900
00 THEN PRINT "Your 1987 tax is
$ ";8840+((ti87-45000)*.35)
 760 IF ti87>90000 THEN PRINT "Y
our 1987 tax is $ ";24590+((ti87
-90000)*.385)
 770 IF ti88<=29750 THEN PRINT "
Your 1988 tax is: ";(ti88*.15)
 780 IF ti88>29750 THEN PRINT "Y
our 1988 tax is: $ ";4462.5+((ti
88-29750)*.28)
 790 IF ti89<=29750 THEN PRINT "
Your 1989 tax is: ";(ti89*.15)
 800 IF ti89>29750 THEN PRINT "Y
our 1989 tax is: $ ";4462.5+((ti
89-29750)*.28)
 810 STOP
 820 IF ti87<=2500 THEN PRINT "Y
our 1987 tax is $ ";ti87*.11
 830 IF ti87>2500 AND ti87<=2300
0 THEN PRINT "Your 1987 tax is $
 ";275+((ti87-2500)*.15)
 840 IF ti87>23000 AND ti87<=380
00 THEN PRINT "Your 1987 tax is
$ ";3350+((ti87-23000)*.28)
 850 IF ti87>38000 AND ti87<=800
00 THEN PRINT "Your 1987 tax is
$ ";7550+((ti87-38000)*.35)
 860 IF ti87>80000 THEN PRINT "Y
our 1987 tax is $ ";22250+((ti87
-80000)*.385)
 870 IF ti88<=25287 THEN PRINT "
Your 1988 tax is: ";(ti88*.15)
 880 IF ti88>25287 THEN PRINT "Y
our 1988 tax is $ ";3793.05+((ti
88-25287)*.28)
 890 IF ti89<=25287 THEN PRINT "
Your 1989 tax is: ";(ti89*.15)
 900 IF ti89>25287 THEN PRINT "Y
our 1989 tax is $ ";3793.05+((ti
89-25287)*.28)
 910 STOP
 920 IF ti87<=1500 THEN PRINT "Y
our 1987 tax is $ ";ti87*.11
 930 IF ti87>1500 AND ti87<=1400
0 THEN PRINT "Your 1987 tax is $
 ";165+((ti87-1500)*.15)
 940 IF ti87>14000 AND ti87<=225
00 THEN PRINT "Your 1987 tax is
$ ";2040+((ti87-14000)*.28)
 950 IF ti87>22500 AND ti87<=450
00 THEN PRINT "Your 1987 tax is
$ ";4420+((ti87-22500)*.35)
 960 IF ti87>45000 THEN PRINT "Y
our 1987 tax is $ ";12295+((ti87
-45000)*.385)
 970 IF ti88<=14875 THEN PRINT "
Your 1988 tax is $ ";ti88*.15
 980 IF ti88>14875 THEN PRINT "Y
our 1988 tax is $ ";2231.25+((ti
88-14875)*.28)
 990 IF ti89<=14875 THEN PRINT "
Your 1989 tax is $ ";ti89*.15
1000 IF ti89>14875 THEN PRINT "Y
our 1989 tax is $ ";2231.25+((ti
89-14875)*.28)
1010 STOP
```

4

__QoLumn__

by Gabe Schaffer

Hi, all! This month I will discuss what I've heard about A+ Computer Response and then present a program. First, if you have any comments, please write to:

Gabe Schaffer
2599 Saybrook Rd.
Univ. Hts., Ohio 44118

A+ Computer Response has A+ Prices

As stated in last month's newsletter, A+ Computer Response is selling North American QLs as a kit (no soldering needed) for only $139. It said that there is a tech manual, a serial cable, and a monitor adapter cable, but didn't point out that the four bundled software packages are not included. No mention was made of the warranty. The QL comes in five parts: the case, the keyboard, the motherboard, and 2 microdrives. Therefore, it should be easy to put together.

I have heard that the manuals were reprinted because all of the mentions of the four bundled software packages had to be taken out.

So far I know that two people have ordered QLs, and at the low price, I hope there will be more.

The address is:

A+ Computer Response
69-B Island St.
Keene, NH. 03431

The phone number is *1-603-357-1800*

PROGRAM

Here is the program and its instructions. Just type it in and run it.

QLDRAW 1.1
INSTRUCTIONS

In the top left of the screen, there is a flashing cursor (the brush). You can select the brush color, the brush size (always the same vertically and horizontally), and the brush density (the number of pixels the brush moves at a time). You move the brush a specified amount of pixels (the brush density) using the cursor keys or the joystick and you 'draw a block' (i.e. draw a block the size of the brush in the current ink color) by pressing either the fire button on the joystick or the space bar.

If you press the 'ESC' key, the menu will appear in the bottom section of the screen, and you will be in menu mode. (Joystick operations will not work in menu mode.) Next to options 1 - 3, there is a number in parentheses. These numbers are the current parameters.

Following are explanations of the six options.

OPTION:

#1 = Change ink color. This allows you to specify an ink color in the range 0 to 255. There are only four actual colors (not including stipples) because QLDRAW operates in MODE 4, so you are also allowed stipples, which provide this extensive range. (For an explanation of stipples and a list of colors, see your users manual in CONCEPTS section.)

#2 = Change brush size. This allows you to change the brush to any one of eight sizes: 1x1, 2x2, 3x3, 4x4, 5x5, 6x6, 7x7, and 8x8 pixels.

#3 = Change brush density. This allows you to change the amount of pixels the brush moves at a time. The range is 1 to 8 pixels.

#4 = Clear screen. Even though the screen is cleared, and the x and y coordinates are set to zero, the brush size, brush color, and brush density are preserved.

#5 = Exit menu. This puts you back into drawing mode.

#6 = Exit program. This stops QLDRAW. Only the program is preserved.

QLDRAW was experimental, so it only has very limited drawing capabilities. Save, load, copy, text, etc. are to come on revised versions.

```
100 init
110 OVER -1:BLOCK cb,cb,x,y,255:x2=x:y2=y:k=KEYROW(1)
120 IF (k&&4)=4 AND y>de-1 THEN y=y-de:ELSE IF (k&&128)=128
 AND y<152-dc THEN y=y+de
130 IF (k&&16)=16 AND x<405-dc THEN x=x+de:ELSE IF (k&&2)=2
 AND x>de-1 THEN x=x-de
140 BLOCK cb,cb,x2,y2,255:OVER 0:IF (k&&64)=64 THEN BLOCK c
b,cb,x,y,i
150 IF (k&&8)=8 THEN GO TO 170
160 GO TO 110
170 menu
180 oi=CODE(INKEY$):IF oi>48 AND oi<55 THEN ON oi-48 GO SUB
 190,200,210,220,230,240:menu:GO TO 180:ELSE GO TO 180
190 CLS #0:INPUT #0,"What color do you want the brush to be
? (0 to 255) "!!i:IF i<>INT(i) OR i<0 OR i>255 THEN GO TO 1
90:ELSE RETurn
200 CLS#0:INPUT #0,"What size brush do you want? (1 to 8) "
!!cb:IF cb<>INT(cb) OR cb<1 OR cb>8 THEN GO TO 200:ELSE RET
urn
210 CLS #0:INPUT #0,"What brush density do you want? (1 to
8) "!!de:IF de<>INT(de) OR de<1 OR de>8 THEN GO TO 210:ELSE
 RETurn
220 x=0:y=0:CLS:RETurn
230 CLS#0:esc:GO TO 110
240 CLEAR:STOP
250 DEFine PROCedure menu:CLS#0:PRINT #0,"1=Change brush co
lor(";i;")"\"2=Change brush size(";cb;")"\"3=Change density
(";de;")":AT #0,0,34:PRINT #0,"4=Clear screen":AT #0,1,34:P
RINT #0,"5=exit menu":AT #0,2,34:PRINT #0,"6=exit program":
END DEFine
260 DEFine FuNction dc:LOCal ed:IF de>=cb THEN ed=de:ELSE e
d=cb+de
270 RETurn ed:END DEFine
280 DEFine PROCedure init:x=0:y=0:cb=2:i=0:de=1:boot:esc:EN
D DEFine
290 DEFine PROCedure esc:CLS #0:CSIZE #0,3,1:INK #0,4:AT  #
0,0,0:PRINT #0,"Press ESC for menu";:INK #0,7:CSIZE #0,0,0:
END DEFine
300 DEFine PROCedure boot:FOR f=1 TO 2:OPEN #f,con_:PAPER #
f,7:INK #f,0:BORDER #f,1,4:NEXT f:WINDOW#0,420,32,46,160:PA
PER #0,0:INK #0,7:BORDER #0,2,2:MODE 4:END DEFine
```

Here is a DISK DIRECTORY program sent in by DEAN MILLER. It is for the OLIGER DISK SYSTEM. It is very easy to use. You just use the LOAD (ENTER) then press the space bar untill you have the program you want. Press the ENTER key to load it. Please the LABEL program for disks too!

```
  30 CLEAR : BORDER 7: PAPER 7:
CLS
  40 RESTORE 9250: GO SUB 9070:
INK 0
  50 PRINT AT 5,8;"M A I N  M E
N U"
  60 PRINT AT 7,9;"□ MTERM";AT 8
,9;"□ MTERM II";AT 9,9;"□ Z-TERM
 64"
  61 PRINT AT 10,9;"□ ARTWORX";A
T 11,9;"□ TIMEMACHINE";AT 12,9;"
□ TINY BOARD"
  62 PRINT AT 13,9;"□ TASWORD";A
T 14,9;"□ MSRIPT"
  65 PRINT AT 16,8; INK 0; FLASH
 1;" MAKE SELECTION ": INK 0: FL
ASH 0
  70 LET CHO=8: LET COL=9: LET S
ROW=7: LET INC=1: GO SUB 9500: L
ET SEL=NUM
  90 IF SEL=1 THEN : LOAD /1
  95 IF SEL=2 THEN : LOAD /2
 100 IF SEL=3 THEN : LOAD /3
 105 IF SEL=4 THEN : LOAD /4
 110 IF SEL=5 THEN : LOAD /5
 115 IF SEL=6 THEN : LOAD /6
 120 IF SEL=7 THEN : LOAD /7
 125 IF SEL=8 THEN : LOAD /8
 150 STOP
9070 FOR N=0 TO 7: READ V: POKE
USR "I"+N,V: NEXT N
9075 FOR N=0 TO 7: READ V: POKE
USR "J"+N,V: NEXT N: RETURN
9240 REM "BOX"
9250 DATA 0,255,129,129,129,129,
129,255
9260 REM "SOLID"
9270 DATA 0,255,255,255,255,255,
255,255
9500 REM *** CURSOR ROUTINE ***
9510 LET ROW=SROW: FOR C=1 TO CH
O: PRINT AT ROW,COL;"■"
9520 IF CODE INKEY$=32 THEN PRIN
T AT ROW,COL;"□": PAUSE 10: LET
ROW=ROW+INC: GO TO 9550
9530 IF CODE INKEY$=13 THEN LET
NUM=C: RETURN
9540 GO TO 9520
9550 IF C=CHO THEN GO TO 9510
9560 NEXT C
```

DISK LABLE
BY DEAN MILLER

HERE IS A LITTLE PROGRAM I WR OTE FOR MAKING LABLES FOR MY DISKS. I USE THE STANDARD 3 1/2" X15/16" TRACTOR FEED LABLES.I GET THESE AT BEST CATALOG STORE FOR 5.95 PER 100.

YOU LINE UP THE LABLES IN YOU R PRINTER,INPUT YOUR 8 TITLES AND WHEN IT ASK YOU "HOW MANY CO PES" ENTER HOW MANY YOU WANT HIT ENTER AND YOU HAVE YOUR LABL E.

THIS PROGRAM CAN BE CHANGE FO R MAILING LABLES TOO

```
    1 REM DISK LABLER
    2 REM Dean R. Miller
    3 REM 9/14/86
    5 GO SUB 1000
   10 INPUT a$: PRINT AT 1,0;"1-"
;A$
   20 INPUT b$: PRINT AT 2,0;"2-"
;B$
   30 INPUT c$: PRINT AT 3,0;"3-"
;C$
   40 INPUT d$: PRINT AT 4,0;"4-"
;D$
   50 INPUT e$: PRINT AT 1,14;"5-
";E$
   60 INPUT f$: PRINT AT 2,14;"6-
";F$
   70 INPUT g$: PRINT AT 3,14;"7-
";G$
   80 INPUT h$: PRINT AT 4,14;"8-
";H$
  100 INPUT "NUMBER OF COPIES";x
  110 FOR i=1 TO x
  500 LPRINT AT 1,0;"1-";a$;AT 1,
14;"5-";e$
  510 LPRINT AT 2,0;"2-";b$;AT 2,
14;"6-";f$
  520 LPRINT AT 3,0;"3-";c$;AT 3,
14;"7-";g$
  530 LPRINT AT 4,0;"4-";d$;AT 4,
14;"8-";h$
  600 LPRINT
  610 LPRINT : NEXT I
  620 CLS : GO TO 1000
1000 PRINT AT 5,10;"Instructions
"
1005 PRINT AT 10,5;"(1) Input Ti
tles (1-8)"
1010 PRINT AT 12,5;"(2) Number o
f Copies"
1015 PRINT AT 14,5; FLASH 1;"(3)
 IS YOU PRINTER ON"
1020 PAUSE 500: CLS
1025 GO TO 10
```

FREE AD:
FOR SALE: 2068 and 2040 printer: New still in the original boxes. Was used for less that 2 hours. Call: 671-6922 $100.00 firm.

Here is a program that I typed in from CTM magazine. It is easy to play but hard to win! It's for the 2068 but with a bit of modifacation, it should run just as well on the 1000, 1500 or ZX-81. It will help the younger kids with their math and yet be a challenge for all of us! J&D

```
    2 REM Game of Sticks (NIM)
    4 REM © 1985 I. Auersbacher
    6 BORDER 2: PAPER 5: INK 0: C
LS
   10 PRINT PAPER 7;AT 2,8;"Game
of Sticks"; PAPER 7;AT 3,8;"
          "; PAPER 7;AT 5,8;"Lev
el of play ";AT 7,11;"1- Novice"
;AT 8,11;"2- Expert": GO SUB 400
   12 INPUT "Enter option: ";d
   14 LET d=INT d: IF (d<1)+(d>2)
 THEN BEEP .5,-20: GO TO 12
   20 PRINT PAPER 3;AT 6+d,8;">>"
   25 DIM z$(30): LET y=INT (RND*
21)+10: LET mm=INT (RND*6)+3
   30 PAUSE 100: CLS : BEEP .1,20
   32 PRINT PAPER 7;AT 3,0;"
                          ";AT
4,0;"  ";AT 4,31;"  ";AT 5,0;"
                          "
   35 PRINT PAPER 7;AT 1,2;"Stick
s: ";y;"  ";AT 1,17;"Max move: ";
mm;"  ": GO SUB 300: GO SUB 400
   40 PRINT PAPER 7;AT 9,5;"Playe
r move:      ": INPUT pm: IF (pm<
=0)+(pm>mm)+(pm>y) THEN BEEP .3,
-16: BEEP .4,-20: GO TO 40
   50 PRINT PAPER 7;AT 9,18;pm: L
ET y=y-pm: IF y>0 THEN GO TO 85
   70 PRINT PAPER 7;AT 4,1;"
     ";AT 1,10;"0"; FLASH 1;AT 9
,5;"You lose SUCKER!! ": PAUSE 4
0: BEEP .5,0: BEEP .5,-3: BEEP .
5,-6: GO TO 500
   85 GO SUB 300: PRINT PAPER 7;A
T 1,2;"Sticks: ";y;"  ": BEEP .1,
10: IF d<>2 THEN GO TO 110
   95 LET z=(y-1)/(mm+1): LET cm=
(mm+1)*(z-INT z)+.01: GO TO 135
  110 LET cm=INT (RND*mm)+1
  115 IF y<>1 THEN GO TO 130
  120 LET cm=1: GO TO 140
  130 IF y<=mm THEN LET cm=y-1
  135 IF INT cm=0 THEN LET cm=1
  140 LET cm=INT cm: PRINT PAPER
7;AT 9,5;"Computer takes: ";cm:
LET y=y-cm: BEEP .1,15
  155 IF y<>0 THEN GO TO 170
  160 PRINT PAPER 7;AT 4,1;"  ";AT
 1,10;"0"; FLASH 1;AT 9,5;".....
YOU WIN.....": PAUSE 30: BEEP .5
,7: BEEP .5,10: BEEP .5,13: GO T
O 500
  170 GO SUB 300: PRINT PAPER 7;A
T 1,2;"Sticks: ";y;"  ": BEEP .1,
7: GO TO 40
  300 DIM z$(30): FOR z=1 TO y: L
ET z$(z)="I": NEXT z: PRINT PAPE
R 7; INK 0;AT 4,1;z$: RETURN
  400 INK 0: PLOT 0,72: DRAW 255,
0: DRAW 0,103: DRAW -255,0: DRAW
 0,-103: INK 0: RETURN
  500 INPUT "Play again? (Y/N) ";
x$: IF x$<>"n" THEN RUN
  510 STOP
9999 BORDER 1: PAPER 0: INK 7: C
LS
```

```
 Sticks: 28      Max move: 6

IIIIIIIIIIIIIIIIIIIIIIIIIIII

 Player move: 1
```

```
   1 INK 7: PAPER 0: BORDER 0: C
LS
   5 DIM q(255)
  10 GO SUB 1000
  20 GO SUB 3000
  90 LET a=USR tone: IF INKEY$="
L" THEN GO TO 200
  95 IF a=255 OR a=0 THEN GO TO
90
 100 IF q(a)<175 THEN LET q(a)=q
(a)+1: PLOT OVER 1;a,q(a): PLOT
OVER 1;a,q(a)-1
 110 GO TO 90
 120 LET a=USR tone: IF INKEY$="
L" THEN GO TO 200
 125 IF a=255 OR a=0 THEN GO TO
120
 130 IF q(a)<175 THEN LET q(a)=q
(a)+1: PLOT a,q(a)
 140 GO TO 120
 200 CLS : PLOT 1,q(1)
 205 FOR t=2 TO 254
 210 DRAW 1,q(t)-PEEK 23678
 220 NEXT t
 230 PAUSE 200: GO TO 20
 300 PLOT 0,175-USR tone/1.5: FO
R t=0 TO 255-step STEP step
 310 DRAW step,(175-(USR tone/1.
5)-PEEK 23678)
 320 NEXT t
 330 CLS : GO TO 300
 500 INPUT "Step length? (1-5) :
";step
 510 GO TO 300
 999 STOP
1000 DATA 1,0,255,17,0,0,219,254
,203,119,32,1,19,16,247,66,75,20
1
1010 LET tone=65368: FOR n=tone
TO tone+17: READ d: POKE n,d: NE
XT n: RETURN
3000 CLS : PRINT '''"      Press P
 for pixel graph"'"            B f
or bar graph"'"            C for c
ontinuous line              graph
"
3010 PRINT '''''"Press L at any
 time for a line  graph"
3020 IF INKEY$="P" OR INKEY$="p"
 THEN CLS : GO TO 90
3030 IF INKEY$="B" OR INKEY$="b"
 THEN CLS : GO TO 120
3035 IF INKEY$="c" OR INKEY$="C"
 THEN CLS : GO TO 500
3040 GO TO 3020
```

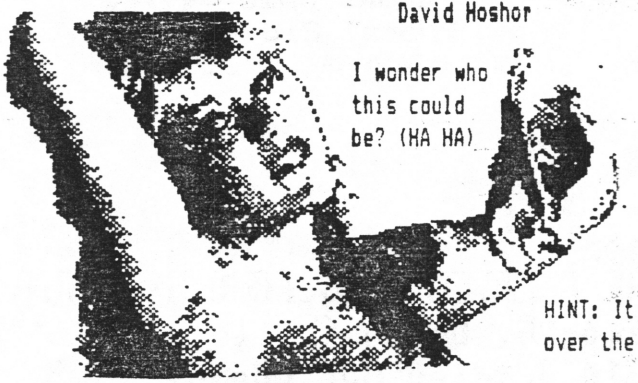
Here is a much improved version of the scope program that was in last months issue. I believe it was given to me by DAN LABUS. If I'm wrong let me know! This is much faster!

PRINTER RIBBON SAVINGS

You can save a small bundle when you replace your printer's ribbon if you replace just the ribbon and not the entire cartridge. Radio Shack stocks a fairly complete line of ribbons for common printers. A package of three replacement ribbons for the Radio Shack DMP130, a.k.a. the QL printer, goes for $12.95. A single cartridge sells for $10.95. (Okay, you can get the cartridge for $8.00 if you look around, but the savings are still significant.) Savings for other common printers such as Epsons are comparable.

Replacing the ribbon is easy. The replacement ribbons come packaged in a small box that fits inside the cartridge to minimize handling. In addition, a plastic glove is provided with each ribbon, so you don't get inky. Just remove the cover of the cartridge, note the way the ribbon is threaded and remove the old ribbon. Place the ribbon box in the cartridge and thread the loop of ribbon through the ribbon guides. Only after the ribbon is threaded through the cartridge do you remove the box. It tears away in such a way that very little readjusting of the ribbon is necessary. Replace the cartridge cover, and your in business. If you can replace a regular typewriter ribbon, you'll have no trouble replacing a printer ribbon. You'll also have the satisfaction of knowing you saved yourself four or five dollars.

David Hoshor



HINT: It came over the modem!

If you would like to subscribe to the RAMTOP please fill out this form and send it to the listed address along with a check for: $15/Year or $7.50/ 6 mo. to become a member of our Group (Attend meetings, use library tapes Ect.) or: $12/Year or $6/ 6 months to receive the RAMTOP only. Please make checks payable to the RAMTOP! (The phone # is only for our records!)

****

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THANK YOU for your interest! Please send to:

Robert Parish, 12706 Leeila Ave., Cleveland, OH 44135

****

October Editorial

Hello to all! hope you are all feeling well and enjoying your Sinclairs! (or Timex) I have had very little time to bang at the keys this month! Hopefully next month won't be as hectic at my job! I've also been tring to get caught up with my CIE course.

Next month I have a neat program from Brian Lewis. He included a QL version and 2068 version.

PLEASE NOTE ON THE FRONT COVER AND IN T/S RESOURCES ABOUT THE GUEST SPEAKER AT THE NOV. EAST SIDE MEETING AND THE DEC. CHRISTMAS PARTY AND AUCTION!!! BE THERE!!! The dates are: NOV 7 and DEC 5.

I just got my ID from FREE NET. (AB 722) If you haven't got yours yet, see Andy at the next meeting.

I hope you all will get geared up and get your articles for the DEC issue! I am hoping to have a super issue! As always, the address is: James G. DuPuy
6514 Bradley Ave, down
Parma, Ohio 44129
Phone: 216-661-4105

(5)

Try your skill at this wordsquare!

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#CZEBRAKFDMDMQUVRQIYV#
#PNHYJLRTIMEXSINCLAIR#
#QHWEVCZDWHZQBSWMOPFZ#
#HXLLDFDISKDRIVEIOSJN#
#MJMLQRRETNIRPERNUDVK#
#EFCKRRSILAMSTRADLERH#
#DZAIDESIWQDQXIWVESAE#
#DISCKTTXXACIHWDEPQNT#
#MWSLPTERAWTFOSRRTBDK#
#SUEILEWJCQFZQYAEKYOW#
#YLTLELGWRQRWFWHGUCMC#
#YQTGCSDYASEREADONLYE#
#MREJNWOLMQEYMXPSLVHN#
#QRONCECTTSNDWJFBUXDT#
#JNQMYNPKOAETAJGVWWAR#
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#VABRUMZODRDWGQMOYZDN#
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#VUHMWRAKSPECTRUMESWC#
#STMTERMHTBKSRRDJXMUS#
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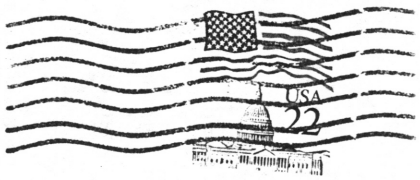
THE WORDS TO LOOK FOR ARE:
1: TIMEXSINCLAIR
2: DISKDRIVE
3: PROCESSOR
4: CENTRONICS
5: MODEM
6: FREENET
7: PRINTER
8: MONITOR
9: HARDWARE
10: SOFTWARE
11: READONLY
12: RANDOM
13: AMSTRAD
14: RAMTOP
15: MEMORY
16: SPECTRUM
17: NEWSLETTER
18: ZEBRA
19: MTERM
20: CASSETTE



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